	Application No.	Applicant(s)	
Notice of Allowability	10/713,692	ENGELS ET AL.	
	Examiner	Art Unit	
	Charles Kim	2624	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED 5) or other appropriate comm RIGHTS. This application is	in this application. If not included nunication will be mailed in due course. THI	
1. \boxtimes This communication is responsive to <u>the communication</u>	filed on January 26, 2005.	. •	
2. X The allowed claim(s) is/are <u>1-7</u> .	•		
 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 	ve been received.		
Copies of the certified copies of the priority of	documents have been receiv	ed in this national stage application from the	е
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:	•	•	
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g	mitted. Note the attached Exives reason(s) why the oath	KAMINER'S AMENDMENT or NOTICE OF or declaration is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") m	oust be submitted.		
(a) including changes required by the Notice of Draftspe	erson's Patent Drawing Revie	ew (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	·		
(b) ☐ including changes required by the attached Examine Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in	R 1.84(c)) should be written on n the header according to 37 (the drawings in the front (not the back) of FR 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the department of attached Examiner's comment regarding REQUIREMENT 	oosit of BIOLOGICAL MA IT FOR THE DEPOSIT OF B	FERIAL must be submitted. Note the IOLOGICAL MATERIAL.	
		•	
		•	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of	nformal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948	3) 6. 🗌 Interview	Summary (PTO-413),	
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/14/03		o./Mail Date s Amendment/Comment	
4. ☐ Examiner's Comment Regarding Requirement for Deposi of Biological Material		s Statement of Reasons for Allowance	
PHIMINALL EXCENSIVE	9.		

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Werner Stemer (Registration No. 34,956) on December 7, 2006. The application has been amended as follows:

In the claims:

In claim 1, line 1, replace "Method" with -- A method--

In claim 1, line 3, replace "the fingerprint" with --a fingerprint--

In claim 2, line 1, replace "Method" with -- The method--

In claim 3, line 1, replace "Method" with -- The method--

In claim 4, line 1, replace "Method" with -- The method--

In claim 5, line 1, replace "Method" with -- The method--

In claim 5, line 2, replace "the first" with --a first--

In claim 6, line 1, replace "Method" with -- The method--

In claim 6, lines 1-2, replace "step (d) comprises" with --step (d) further comprises--

In claim 6, line 3, replace "the gray scale differential" with --a gray scale differential--

In claim 7, line 1, replace "Method" with -- The method--

In claim 7, line 5, replace "centre" with --center-

In claim 7, line 6, replace "centre" with --center--

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance: the essential difference from the prior art is capturing the texture of at least one differential image, wherein the differential image is obtained from the sequence of images of the fingerprint to be recognized, and comparing the texture of the differential image with a predetermined texture to determine whether the captured sequence is from a real finger or from an imitation. These features in combination with the other elements of the claim and the base claim are not disclosed or suggested by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citation of Pertinent Prior Art

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. Brownlee U.S. Patent No. 6,292,576 discloses a method for fingerprint forgery recognition comprising capturing an image sequence comprising a plurality of images of a fingerprint to be recognized and determining a difference between the images. The method determines that the capture image sequence comes from a real finger or from an imitation

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depending on whether the difference is greater than a threshold. No differential image is disclosed.

- b. Martinez et al. U.S. Patent No. 6,483,932 discloses a method for fingerprint forgery recognition comprising capturing an image sequence comprising a plurality of images of a fingerprint to be recognized and determining a difference (match count) between the images. The method determines that the capture image sequence comes from a real finger or from an imitation based on the match count. No differential image is disclosed.
- c. Bjorn et al. U.S. Patent No. 6,741,729 discloses a method for recognizing a fingerprint by determining a differential image between a fingerprint image and a background image. The differential image is not obtained from an image sequence of images of the fingerprint to be recognized.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Kim whose telephone number is 571-272-7421. The examiner can normally be reached on Mon thru Thurs 8:30am to 6pm and alternating Fri 9:30am to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on 571-272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-272-7414.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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December 7, 2006